In re application of

MAIL STOP: RCE

Mitsuaki OSHIMA et al.

Docket No. 2000_1420

Serial No. 09/686,467

Group Art Unit 2634

Filed October 12, 2000

Examiner A. Le

COMMUNICATION SYSTEM

Confirmation No. 3378

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

	[X]	each U.S. Patent and U.S. Patent application publication;					
	0	each reference previously cited in the international application PCT/; and/or					
		each reference previously cited in prior parent application Serial No.					
1a.	[X] This Information Disclosure Statement is submitted: within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or						
	before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,						

and thus no certification and/or fee is required.

1b.	[] This Information Disclosure Statement is submitted							
	Action of	events of above paragraph 1a and prior to the mailing date of a final Office or a Notice of Allowance or an action which otherwise closes prosecution in the ion, and thus:						
	(1) [] the certification of paragraph 2 below is provided, or							
	(2) [] th	the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.						
1c.	[] This Information Disclosure Statement is submitted:							
	after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:							
	the certification of paragraph 2 below is provided, and							
	the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.							
2.	It is hereby certified							
	a. []	that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or						
	b. []	that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.						
3. []		ration of the following list of additional information (including any copending or led U.S. application, prior uses and/or sales, etc.) is requested.						

a full or partial English language translation submitted herewith,

4.

is made to:

For each non-English language reference listed on the attached form PTO-1449, reference

- b. [] a foreign patent office search report (in the English language) submitted herewith,
- c. [] the concise explanation contained in the specification of the present application at page,
- d. [X] the concise explanation set forth in the attached English language abstract,
- e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 5. A foreign patent office search report citing one or more of the references is enclosed.
- 6. [] <u>Statement Under 37 CFR 1.704(d)</u>

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA et/al.

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March 23, 2005

Sheet 1 of 2 INFORMATION DISCLOSURE STATEMENT									
FORM PTO 1449 (7	nodified)		SIPE	ATTY DOCKET NO. 2000_1420		SERIAL NO. 09/686,467			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 2 3 2005 APPLICANT LIST OF REFERENCES CITED BY APPLICANT(S) 2000_1420 2000_1420 09/686,467 APPLICANT Mitsuaki OSHIMA et al.									
Date	(Use seve	eral sheets if necessar	TRADEWARK OF	FILING DATE GROUP October 12, 2000 2634					
Date Submitted to PTO: March 23, 2005 PADENTAL FILING DATE October 12, 2000 U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CI	ASS	SUBCLASS	FILING DA	
	AA	3,824,548	7-16-74	Sullivan et al.					-
	АВ	3,959,726	5-25-76	Hinoshita et al.					
	AG	4,303,939	12-1-81	Stephens et al.					
	AD	4,303,941	12-1-81	Marti et al.					
	AE	4,309,726	1-5-82	Tanaka et al.					
	AF	4,535,352	8-85	Haskell				· · · · · · · · · · · · · · · · · · ·	
	AG	4,564,858	1-14-86	Resch					
	АН	4,581,639	4-8-86	Judge					
	Al	4,769,819	9-6-88	Matsutani et al.					
	AJ	4,794,447	12-27-88	Tsinberg					
	AK	4,817,192	3-28-89	Phillips et al.		_			
	AL	5,029,003	7-91	Jonnalagadda				.,,	
	АМ	5,134,464	7-28-92	Basile et al.		_		· · · · · · · · · · · · · · · · · · ·	
	AN	5,400,084	3-21-95	Scarpa					
	AO	5,214,656	5-25-93	Chung et al.					
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		DOCUMENT NUMBER	DATE	COUNTRY	CL	ASS	SUBCLASS	TRANSLA YES	TION NO
,	AP	3-48587	3-1-91	Japan		,		abstract	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
AQ Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991									
	AR Ryutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991								
EXAMINER				DATE CONSIDER	ED				-
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Sheet 2 of 2		ب (۱	INFORMA"	TION DISCLOSURE STATEMEN	т					
FORM PTO 1449 (modified) SERIAL NO. OO(698 467										
PAT	ENT AN	TMENT OF COMMERC D TRADEMARK OFFIC ICES CITED BY APPLICA	MAR 2 3 2005	CAPPLICANT Mitsuaki OSHIMA et al.		-				
Date	(Use seve	ral sheets if necessary) d to PTO: March 23, 20	TRADENARY OF	Mitsuaki OSHIMA et al. FILING DATE October 12, 2000		GROUP 2634				
U.S. PATENT DOCUMENTS										
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	AA	5,181,112	1-19-93	Citta et al.						
	АВ	5,377,051	12-27-94	Lane et al.						
	AC	5,576,902	11-19-96	Lane et al.						
	AD	5,218,622	6-8-93	Fazel et al.	1					
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	АН	4,800,426	1-24-89	Glenn						
	AI	5,007,088	4-9-91	Ooi et al.						
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		DOCUMENT NUMBER	DATE	COUNTRÝ	CLASS	SUBCLASS	TRANSLA YES	TION NO		
	AJ					-				
	AK					_		_		
	AF									
	АМ									
	AN									
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)										
	AO									
	AP									
	AQ									
EXAMINER DATE CONSIDERED										